



Lampiran 1. Certificate of Analysis Asam Fenofibrat



Shijiazhuang Aopharm Medical Technology Co., Ltd.

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Certificate of Analysis

Product	Fenofibric acid		
CAS	42017-89-0	Batch No.	20141014
Mfg. Date	2014-10-14	Exp.Date	2016-10-13
Item	Specification		Results
Apperance	White or almost White crystalline powder		Conforms
Identification	Should comply with the IR spectrum		Conforms
Appearance of solution	Meet the requirement		Conforms
Loss on drying	≤0.5%		0.26%
Melting point	179°C ~ 184°C		182.3°C ~ 182.6°C
Total impurity	≤0.5%		0.11%
4-Chloro-4'-hydroxybenzophenone	≤0.1%		0.038%
Other each impurity	≤0.1%		0.041%
Assay	98.0 ~ 102.0 %		99.8%
Residue on ignition	≤0.1%		0.084%
Conclusion	It conforms with the standard		

Check: Song Yun

Inspector: Han Fei

Lampiran 2. Certificate of Analysis Crospovidon

BASF
We create chemistry

Certificate of Analysis
BASF South East Asia Pte. Ltd.

Please note that the certificate of analysis are also conveniently available online and around the clock at www.worldaccount.basf.com

PT MEGASETIA AGUNG KIMIA
NO.7-10 RT.014 RW.013 SUNTER AGUNG
14350 JAKARTA
Indonesia

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2016-04-16
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Certificate No 3500
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Handwritten: *15/04/2016*

Certificate of Analysis according to DIN 55350-18-4.2.2

Kolidon® CL

40KG PE-Drum, removable head
Purchase Order/Customer Product#
043011/2015
00000000050000695

Material 50000695
Order 6002885591 000030
Delivery 6203088847 000030
Lot 7388790870
Lot/City 520.000 KG
Total 800.000 KG
Transport TGHU1728317

Test Parameter	Requirements	Unit	Results
Identification (IR)	must conform		conforms
Peroxides	Max.: 400	mg/kg	63
Particle size**	must comply to type A		conforms
Water soluble substances	Max.: 1.5	g/100g	0.2
Water soluble substances (JP) must conform (max.75 mg Residue)			conforms
N-Vinylpyrrolidone (BO)	Max.: 10	mg/kg	<2
Heavy metals *	must conform (max.: 10 mg/kg)		conforms
Loss on drying	Max.: 5.0	g/100g	1.8
Residue on ignition *	must conform (max.: 8.1 g/100g)		conforms
Nitrogen (dried basis)	Min.: 11.8 Max.: 12.8	g/100g	12.4
Total aerobic microbial count (TAMC) Test method Ph.Eur., 2.6.12	Max.: 200	CFU/g	<10

megasetia
PT. MEGASETIA AGUNG KIMIA
JAKARTA

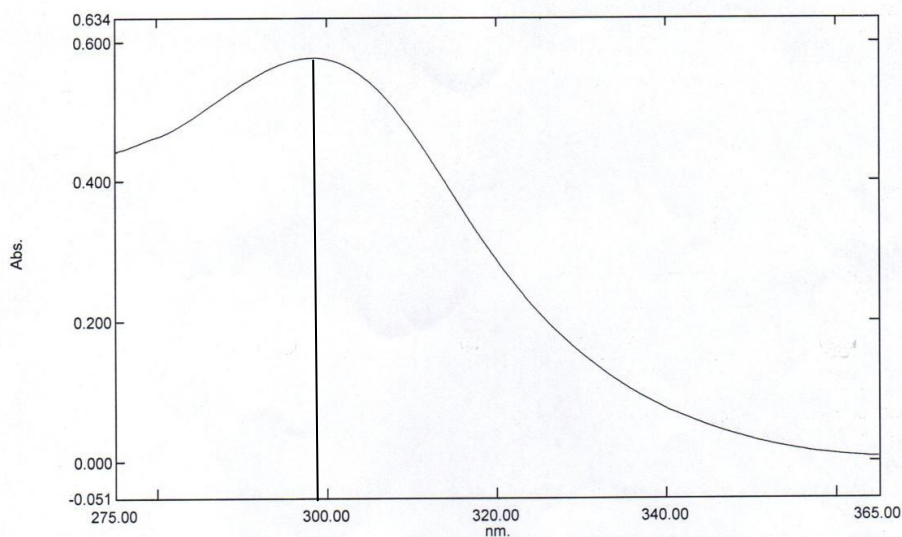
The above mentioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantees of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

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Lampiran 3. Penentuan Panjang Gelombang Maksimal Asam Fenofibrat**Spectrum Peak Pick Report**

03/30/2015 12:36:33 PM

Data Set: File_130115_155953_122943 - RawData



[Measurement Properties]
Wavelength Range (nm.): 275.00 to 365.00
Scan Speed: Medium
Sampling Interval: 0.1
Auto Sampling Interval: Disabled
Scan Mode: Auto

[Instrument Properties]
Instrument Type: UV-1800 Series
Measuring Mode: Absorbance
Slit Width: 1.0 nm
Light Source Change Wavelength: 340.0 nm
S/R Exchange: Normal

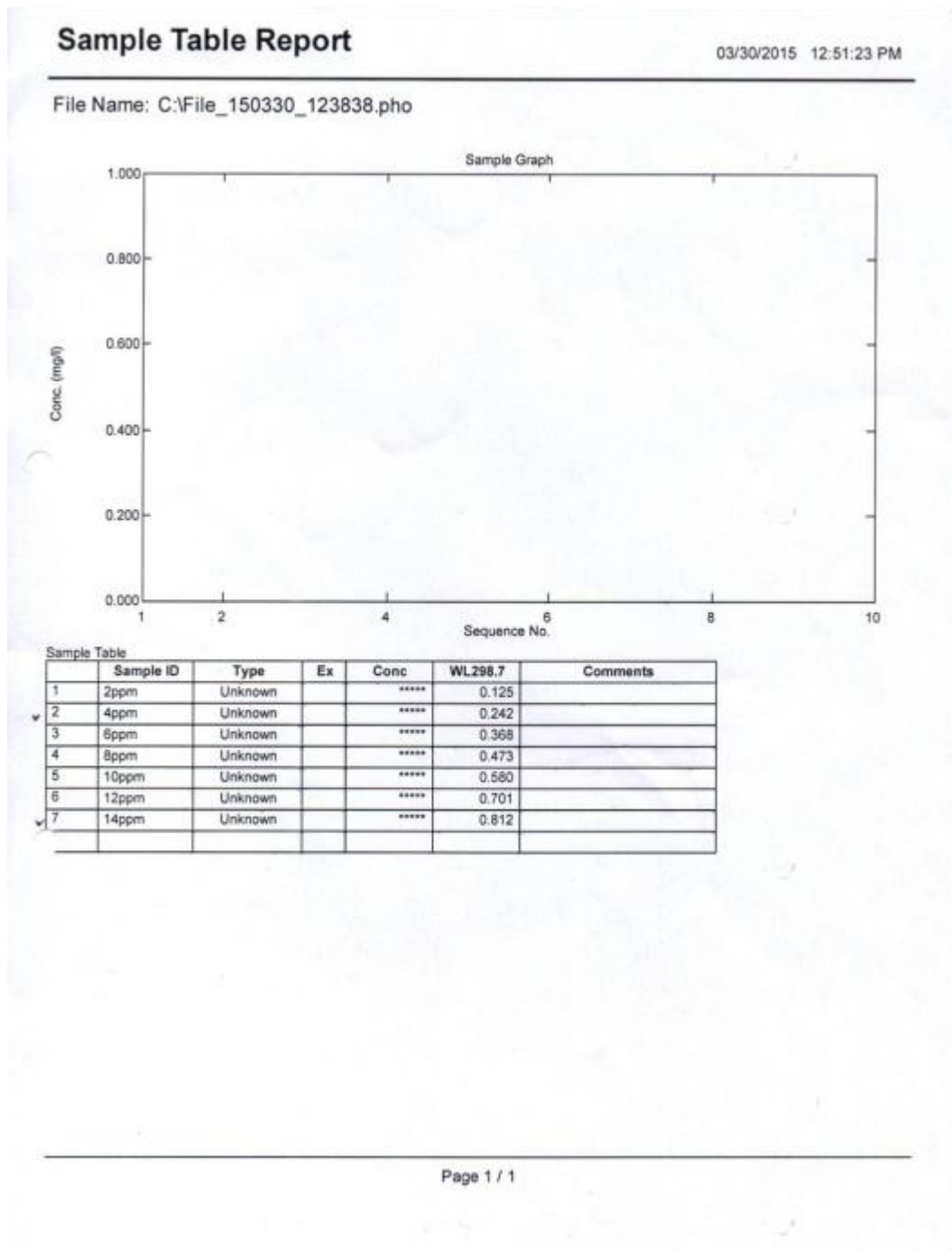
[Attachment Properties]
Attachment: 6-Cell
Number of cells: 6

[Operation]
Threshold: 0.0010000
Points: 4
InterPolate: Disabled
Average: Disabled

[Sample Preparation Properties]
Weight:
Volume:
Dilution:
Path Length:
Additional Information:

No.	P/V	Wavelength	Abs.	Description
1	Ⓢ	298.70	0.577	

Lampiran 4. Kurva Baku Asam Fenofibrat



Lampiran 5. Kandungan Zat Aktif Asam Fenofibrat

Dispersi Padat Permukaan

DPP11

Replikasi	Penimbangan	Absorbansi	Pengenceran	Kadar (mg)	Kadar Sesungguhnya (mg)	% Kandungan Zat Aktif
1	98.5	0.707	40	48.58761062	49.25	98.65504694
2	99.7	0.662	40	45.40176991	49.85	91.07677013
3	101.7	0.824	40	56.87079646	50.85	111.8403077
			Rata-rata	50.28672566		100.5240416
			SD			10.507187

DPP12

Replikasi	Penimbangan	Absorbansi	Pengenceran	Kadar (mg)	Kadar Sesungguhnya (mg)	% Kandungan Zat Aktif
1	100.2	0.706	25	30.32300885	33.4	90.78745165
2	100.8	0.826	25	35.63274336	33.6	106.0498314
3	101.3	0.493	40	33.43716814	33.76666667	99.02418996
			Rata-rata	33.13097345		98.62049101
			SD			7.639194254

DPP13

Replikasi	Penimbangan	Absorbansi	Pengenceran	Kadar (mg)	Kadar Sesungguhnya (mg)	% Kandungan Zat Aktif
1	400	0.584	100	101.862281	100	101.862281
2	400	0.517	100	90.28780707	100	90.28780707
3	400	0.547	100	95.47040735	100	95.47040735
			Rata-rata	95.87349849		95.87349849
			SD			5.797755923

Campuran Fisik

CF11

Replikasi	Penimbangan	Absorbansi	Pengenceran	Kadar (mg)	Kadar Sesungguhnya (mg)	% Kandungan Zat Aktif
1	199.9	0.541	100	94.4338873	99.95	94.48112786
2	199.9	0.531	100	92.70635387	99.95	92.75273023
3	200	0.579	100	100.9985143	100	100.9985143
				Rata-rata	96.04625183	96.07745747
				SD		4.348498589

CF12

Replikasi	Penimbangan	Absorbansi	Pengenceran	Kadar (mg)	Kadar Sesungguhnya (mg)	% Kandungan Zat Aktif
1	300	0.537	100	93.74287392	100	93.74287392
2	299.8	0.531	100	92.70635387	99.93333333	92.76819933
3	299.9	0.575	100	100.307501	99.96666667	100.3409479
				Rata-rata	95.58557625	95.6173404
				SD		4.119690371

CF13

Replikasi	Penimbangan	Absorbansi	Pengenceran	Kadar (mg)	Kadar Sesungguhnya (mg)	% Kandungan Zat Aktif
1	399.9	0.55	100	95.98866738	99.975	96.01267055
2	399.9	0.565	100	98.57996752	99.975	98.60461868
3	399.8	0.624	100	108.7724147	99.95	108.8268282
				Rata-rata	101.1136832	101.1480391
				SD		6.77513096

Lampiran 6. Hasil Uji Disolusi Asam Fenofibrat

DPP11 (A)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.281		0.00460708	4.146371681		4.146371681	3.933959221
15	0.377	10	0.063061947	56.75575221	0.023035398	56.77878761	53.87009469
30	0.403	10	0.067663717	60.89734513	0.338345133	61.23569027	58.09867684
45	0.601	10	0.102707965	92.43716814	0.676663717	93.11383186	88.34374861
60	0.608	10	0.103946903	93.55221239	1.19020354	94.74241593	89.88890273

Penimbangan : 209,7 mg

DPP11 (B)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.177	5	0.013831858	12.44867257		12.44867257	11.78845924
15	0.561	5	0.047814159	43.03274336	0.069159292	43.10190265	40.81600024
30	0.724	5	0.062238938	56.01504425	0.308230088	56.32327434	53.33617862
45	0.732	5	0.062946903	56.65221239	0.619424779	57.27163717	54.23424518
60	0.589	10	0.100584071	90.52566372	0.934159292	91.45982301	86.60926613

Penimbangan : 210,1 mg

DPP 11(C)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.319		0.005279646	4.751681416		4.751681416	4.551671102
15	0.492	5	0.041707965	37.53716814	0.02639823	37.56356637	35.98242066
30	0.516	5	0.043831858	39.44867257	0.234938053	39.68361062	38.01322687
45	0.774	5	0.066663717	59.99734513	0.454097345	60.45144248	57.90688805
60	0.787	5	0.067814159	61.03274336	0.787415929	61.82015929	59.2179921

Penimbangan : 207,7 mg

DPP12 (A)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.412		0.006925664	6.233097345		6.233097345	6.007876675
15	0.417	5	0.035070796	31.56371681	0.034628319	31.59834513	30.4566013
30	0.831	5	0.071707965	64.53716814	0.209982301	64.74715044	62.40763995
45	0.772	10	0.132973451	119.6761062	0.568522124	120.2446283	115.899826
60	0.858	10	0.14819469	133.3752212	1.233389381	134.6086106	129.7447942

Penimbangan : 315,6 mg

DPP12 (B)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.138		0.002076106	1.868495575		1.868495575	1.804411616
15	0.486	5	0.041176991	37.05929204	0.010380531	37.06967257	35.7982907
30	0.375	10	0.062707965	56.43716814	0.216265487	56.65343363	54.71038576
45	0.449	10	0.07580531	68.22477876	0.52980531	68.75458407	66.39650197
60	0.474	10	0.080230088	72.20707965	0.908831858	73.1159115	70.60824857

Penimbangan : 315 mg

DPP12 (C)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.092		0.000126195	0.113575221		0.113575221	0.109679922
15	0.559	5	0.047637168	42.87345133	0.000630973	42.8740823	41.40362608
30	0.46	5	0.038876106	34.98849558	0.238816814	35.22731239	34.01911812
45	0.532	10	0.090495575	81.4460177	0.433197345	81.87921504	79.0709963
60	0.55	10	0.093681416	84.31327434	0.885675221	85.19894956	82.27687359

Penimbangan : 315 mg

DPP13 (A)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.13		0.001934513	1.741061947		1.741061947	1.729523029
15	0.36	5	0.030026549	27.02389381	0.009672566	27.03356637	26.85440095
30	0.28	10	0.045893805	41.30442478	0.15980531	41.46423009	41.1894252
45	0.318	10	0.052619469	47.35752212	0.389274336	47.74679646	47.43035375
60	0.335	10	0.055628319	50.06548673	0.652371681	50.71785841	50.38172493

Penimbangan : 420 mg

DPP13 (B)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.6		0.010253097	9.227787611		9.227787611	9.166630291
15	0.27	5	0.022061947	19.85575221	0.051265487	19.9070177	19.7750836
30	0.332	10	0.055097345	49.58761062	0.161575221	49.74918584	49.41947226
45	0.359	10	0.059876106	53.88849558	0.437061947	54.32555752	53.96551396
60	0.37	10	0.061823009	55.64070796	0.736442478	56.37715044	56.00350992

Penimbangan : 420 mg

DPP13 (C)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.663		0.001136814	1.023132743		1.023132743	1.01514341
15	0.587	5	0.050115044	45.10353982	0.005684071	45.10922389	44.75697962
30	0.568	5	0.048433628	43.59026549	0.256259292	43.84652478	43.50414054
45	0.572	5	0.048787611	43.90884956	0.498427434	44.40727699	44.06051401
60	0.616	5	0.052681416	47.41327434	0.742365487	48.15563982	47.77960701

Penimbangan : 420,5 mg

CF11 (A)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.171		0.002660177	2.394159292		2.394159292	2.37324318
15	0.535	5	0.045513274	40.9619469	0.013300885	40.97524779	40.61727541
30	0.717	5	0.061619469	55.45752212	0.240867257	55.69838938	55.21179111
45	0.593	10	0.101292035	91.16283186	0.548964602	91.71179646	90.91057398
60	0.794	10	0.136867257	123.180531	1.055424779	124.2359558	123.1505922

Penimbangan : 210 mg

CF11 (B)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.369		0.006164602	5.548141593		5.548141593	5.499671321
15	0.584	5	0.049849558	44.86460177	0.030823009	44.89542478	44.50320453
30	0.441	10	0.074389381	66.95044248	0.280070796	67.23051327	66.64316682
45	0.45	10	0.075982301	68.3840708	0.652017699	69.0360885	68.43296798
60	0.715	10	0.122884956	110.5964602	1.031929204	111.6283894	110.6531694

Penimbangan : 210 mg

CF11 (C)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.056		6.24779E-05	0.056230088		0.056230088	0.055978754
15	0.537	5	0.045690265	41.12123894	0.000312389	41.12155133	40.93774829
30	0.553	5	0.047106195	42.39557522	0.228763717	42.62433894	42.43381882
45	0.604	5	0.051619469	46.45752212	0.46429469	46.92181681	46.71208805
60	0.768	5	0.066132743	59.51946903	0.722392035	60.24186106	59.97259503

Penimbangan : 209,1 mg

CF12 (A)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.079		0.001031858	0.928672566		0.928672566	0.924989191
15	0.483	5	0.040911504	36.82035398	0.005159292	36.82551327	36.67945297
30	0.691	5	0.059318584	53.38672566	0.209716814	53.59644248	53.38386397
45	0.784	5	0.067548673	60.79380531	0.506309735	61.30011504	61.05698161
60	0.501	10	0.08500885	76.5079646	0.844053097	77.3520177	77.04521793

Penimbangan : 315 mg

CF12 (B)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.369		0.006164602	5.548141593		5.548141593	5.543735269
15	0.28	5	0.022946903	20.65221239	0.030823009	20.6830354	20.66660897
30	0.338	10	0.056159292	50.54336283	0.145557522	50.68892035	50.6486633
45	0.54	10	0.091911504	82.72035398	0.426353982	83.14670796	83.080673
60	0.576	10	0.098283186	88.45486726	0.885911504	89.34077876	89.26982447

Penimbangan : 314 mg

CF12 (C)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.059		0.000677876	0.610088496		0.610088496	0.611356259
15	0.566	5	0.048256637	43.43097345	0.003389381	43.43436283	43.52461943
30	0.635	5	0.054362832	48.92654867	0.244672566	49.17122124	49.27339903
45	0.665	5	0.057017699	51.3159292	0.516486726	51.83241593	51.94012368
60	0.888	5	0.076752212	69.07699115	0.801575221	69.87856637	70.02377402

Penimbangan : 314 mg

CF13 (A)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.049		0.000500885	0.45079646		0.45079646	0.425470053
15	0.412	5	0.034628319	31.16548673	0.002504425	31.16799115	29.41692765
30	0.586	5	0.050026549	45.02389381	0.175646018	45.19953982	42.66016332
45	0.8	5	0.068964602	62.06814159	0.425778761	62.49392035	58.98292016
60	0.597	10	0.102	91.8	0.77060177	92.57060177	87.36984946

Penimbangan : 419 mg

CF13 (B)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.1		0.00140354	1.263185841		1.263185841	1.189379591
15	0.796	5	0.068610619	61.74955752	0.007017699	61.75657522	58.14822159
30	0.387	10	0.064831858	58.34867257	0.350070796	58.69874336	55.26905473
45	0.437	10	0.073681416	66.31327434	0.674230088	66.98750442	63.07351463
60	0.731	10	0.125716814	113.1451327	1.042637168	114.1877699	107.5159321

Penimbangan : 420 mg

CF13 (C)

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.101		0.000142124	0.127911504		0.127911504	0.120437807
15	0.376	10	0.062884956	56.59646018	0.000710619	56.5971708	53.29027423
30	0.42	10	0.070672566	63.60530973	0.315135398	63.92044513	60.18565949
45	0.495	10	0.083946903	75.55221239	0.66849823	76.22071062	71.76723701
60	0.645	10	0.110495575	99.4460177	1.088232743	100.5342504	94.6601694

Penimbangan : 420 mg

AF Murni Replikasi 1

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.31	5	0.02560177	23.04159292		23.04159292	21.94437421
15	0.579	5	0.04940708	44.46637168	0.12800885	44.59438053	42.4708386
30	0.334	10	0.055451327	49.90619469	0.375044248	50.28123894	47.88689423
45	0.394	10	0.066070796	59.46371681	0.652300885	60.1160177	57.25335019
60	0.426	10	0.071734513	64.56106195	0.982654867	65.54371681	62.42258744

Penimbangan : 105 mg

AF Murni Replikasi 2

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.783		0.013492035	12.14283186		12.14283186	11.56460177
15	0.467	5	0.039495575	35.5460177	0.067460177	35.61347788	33.91759798
30	0.601	5	0.051353982	46.21858407	0.264938053	46.48352212	44.27002107
45	0.355	10	0.059168142	53.25132743	0.521707965	53.7730354	51.21241466
60	0.401	10	0.067309735	60.57876106	0.817548673	61.39630973	58.47267594

Penimbangan : 105 mg

AF Murni Replikasi 3

Menit ke	Abs	Pengenceran	Kadar (mg /ml)	Jumlah terlarut (mg)	Koreksi (mg)	Jumlah terlarut setelah koreksi	% Terlarut
5	0.709		0.012182301	10.9640708		10.9640708	10.44197219
15	0.317	5	0.026221239	23.59911504	0.060911504	23.66002655	22.53335862
30	0.409	5	0.034362832	30.92654867	0.192017699	31.11856637	29.63672988
45	0.29	10	0.047663717	42.89734513	0.363831858	43.26117699	41.20112094
60	0.333	10	0.055274336	49.74690265	0.602150442	50.3490531	47.95147914

Penimbangan : 105 mg

SD C₄₅

Sistem	±SD
DPP11	18.72319867
DPP12	25.71505588
DPP13	5.036089139
CF11	22.10032261
CF12	16.00986098
CF13	6.52881471
AF Murni	8.107537313

Lampiran 7. Data Perhitungan DE₆₀ Uji Disolusi Asam Fenofibrat

1. Dispersi Padat Permukaan

DPP CP 1:1 (A)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.281		3.933959221	9.834898053
15	0.377	10	53.87009469	19.66979611
30	0.403	10	58.09867684	839.7657864
45	0.601	10	88.34374861	1098.318191
60	0.608	10	89.88890273	1336.744885
Jumlah				3304.333556

DPP CP 1:1 (B)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.177	5	11.78845924	29.47114809
15	0.561	5	40.81600024	263.0222974
30	0.724	5	53.33617862	706.1413414
45	0.732	5	54.23424518	806.7781785
60	0.589	10	86.60926613	1056.326335
Jumlah				2861.7393

DPP CP 1:1 (C)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.319		4.551671102	11.37917775
15	0.492	5	35.98242066	202.6704588
30	0.516	5	38.01322687	554.9673565
45	0.774	5	57.90688805	719.4008619
60	0.787	5	59.2179921	878.4366011
Jumlah				2366.854456

DE₆₀ DPP CP 1:1

Replikasi	Luas Bidang	% DE ₆₀
1	3304.333556	55.07222594
2	2861.7393	47.695655
3	2366.854456	39.44757427
Rata-rata		47.40515174
SD		7.816375701

DPP CP 1:2 (A)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.412		6.007876675	15.01969169
15	0.417	5	30.4566013	182.3223899
30	0.831	5	62.40763995	696.4818094
45	0.772	10	115.899826	1337.305995
60	0.858	10	129.7447942	1842.334651
Jumlah				4073.464537

DPP CP 1:2 (B)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.138		1.804411616	4.51102904
15	0.486	5	35.7982907	188.0135116
30	0.375	10	54.71038576	678.8150735
45	0.449	10	66.39650197	908.301658
60	0.474	10	70.60824857	1027.535629
Jumlah				2807.176901

DPP CP 1:2 (C)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.092		0.109679922	0.274199804
15	0.559	5	41.40362608	207.56653
30	0.46	5	34.01911812	565.6705814
45	0.532	10	79.0709963	848.1758581
60	0.55	10	82.27687359	1210.109024
Jumlah				2831.796194

DE₆₀ DPP CP 1:2

Replikasi	Luas Bidang	% DE ₆₀
1	4073.464537	67.89107561
2	2807.176901	46.78628169
3	2831.796194	47.19660323
Rata-rata		53.95798684
SD		9.853605533

DPP CP 1:3 (A)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.13		1.729523029	4.323807573
15	0.36	5	26.85440095	142.9196199
30	0.28	10	41.1894252	510.3286961
45	0.318	10	47.43035375	664.6483421
60	0.335	10	50.38172493	733.5905902
Jumlah				2055.811056

DPP CP 1:3 (B)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.6		9.166630291	22.91657573
15	0.27	5	19.7750836	144.7085695
30	0.332	10	49.41947226	518.959169
45	0.359	10	53.96551396	775.3873967
60	0.37	10	56.00350992	824.7676791
Jumlah				2286.73939

DPP CP 1:3 (C)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.663		1.01514341	2.537858524
15	0.587	5	44.75697962	228.8606152
30	0.568	5	43.50414054	661.9584013
45	0.572	5	44.06051401	656.7349092
60	0.616	5	47.77960701	688.8009077
Jumlah				2238.892692

DE₆₀ DPP CP 1:3

Replikasi	Luas Bidang	% DE ₆₀
1	2055.811056	34.2635176
2	2286.73939	38.11232317
3	2238.892692	37.3148782
Rata-rata		36.56357299
SD		2.031420861

2. Campuran Fisik

CF CP 1:1 (A)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.171		2.37324318	5.933107949
15	0.535	5	40.61727541	214.952593
30	0.717	5	55.21179111	718.7179989
45	0.593	10	90.91057398	1095.917738
60	0.794	10	123.1505922	1605.458746
Jumlah				3640.980185

CF CP 1:1 (B)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.369		5.499671321	13.7491783
15	0.584	5	44.50320453	250.0143793
30	0.441	10	66.64316682	833.5977852
45	0.45	10	68.43296798	1013.071011
60	0.715	10	110.6531694	1343.146031
Jumlah				3453.578384

CF CP 1:1 (C)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.056		0.055978754	0.139946885
15	0.537	5	40.93774829	204.9686352
30	0.553	5	42.43381882	625.2867534
45	0.604	5	46.71208805	668.5943015
60	0.768	5	59.97259503	800.1351231
Jumlah				2299.12476

DE₆₀ CF CP 1:1

Replikasi	Luas Bidang	% DE ₆₀
1	2299.12476	38.318746
2	3453.578384	57.55963974
3	3903.892111	65.06486851
Rata-rata		47.93919287
SD		13.60536644

CF CP 1:2 (A)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.079		0.924989191	2.312472977
15	0.483	5	36.67945297	188.0222108
30	0.691	5	53.38386397	675.4748771
45	0.784	5	61.05698161	858.3063419
60	0.501	10	77.04521793	1035.766497
Jumlah				2759.882399

CF CP 1:2 (B)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.059		0.611356259	1.528390648
15	0.566	5	43.52461943	220.6798785
30	0.635	5	49.27339903	695.9851385
45	0.665	5	51.94012368	759.1014203
60	0.888	5	70.02377402	914.7292328
Jumlah				2592.024061

CF CP 1:2 (C)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.369		5.543735269	13.85933817
15	0.28	5	20.66660897	131.0517212
30	0.338	10	50.6486633	534.864542
45	0.54	10	83.080673	1002.970022
60	0.576	10	89.26982447	1292.628731
Jumlah				2975.374355

DE₆₀ CF CP 1:2

Replikasi	Luas Bidang	% DE ₆₀
1	2759.882399	45.99803999
2	2592.024061	43.20040101
3	2975.374355	49.58957258
Rata-rata		46.26267119
SD		4.51782654

CF CP 1:3 (A)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.049		0.425470053	1.063675133
15	0.412	5	29.41692765	149.2119885
30	0.586	5	42.66016332	540.5781823
45	0.8	5	58.98292016	762.3231261
60	0.597	10	87.36984946	1097.645772
Jumlah				2550.822744

CF CP 1:3 (B)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.1		1.189379591	2.973448977
15	0.796	5	58.14822159	296.6880059
30	0.387	10	55.26905473	850.6295724
45	0.437	10	63.07351463	887.5692703
60	0.731	10	107.5159321	1279.42085
Jumlah				3317.281148

CF CP 1:3 (C)

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.101		0.120437807	0.301094518
15	0.376	10	53.29027423	267.0535602
30	0.42	10	60.18565949	851.0695029
45	0.495	10	71.76723701	989.6467237
60	0.645	10	94.6601694	1248.205548
Jumlah				3356.276429

DE₆₀ CF CP 1:3

Replikasi	Luas Bidang	% DE ₆₀
1	2550.822744	42.5137124
2	3317.281148	55.28801913
3	3356.276429	55.93794049
Rata-rata		51.24655734
SD		7.569843789

3. Asam Fenofibrat Murni

Replikasi 1

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.31	5	21.94437421	54.86093552
15	0.579	5	42.4708386	322.0760641
30	0.334	10	47.88689423	677.6829962
45	0.394	10	57.25335019	788.5518331
60	0.426	10	62.42258744	897.5695322
Jumlah				2740.741361

Replikasi 2

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.783		11.56460177	28.91150442
15	0.467	5	33.91759798	227.4109987
30	0.601	5	44.27002107	586.4071429
45	0.355	10	51.21241466	716.118268
60	0.401	10	58.47267594	822.6381795
Jumlah				2381.486094

Replikasi 3

Menit ke	Abs	FP	% Terlarut	Luas Bidang
5	0.709		10.44197219	26.10493047
15	0.317	5	22.53335862	164.876654
30	0.409	5	29.63672988	391.2756637
45	0.29	10	41.20112094	531.2838812
60	0.333	10	47.95147914	668.6445006
Jumlah				1782.18563

DE₆₀ AF Murni

Replikasi	Luas Bidang	% DE ₆₀
1	2740.741361	45.67902269
2	2381.486094	39.69143489
3	1782.18563	29.70309383
Rata-rata		38.35785047
SD		8.071022936

Lampiran 8. Hasil Uji Statistik DE₆₀ Asam Fenofibrat

Uji Normalitas

Tests of Normality

Perband ingan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
DE60 DPP11	.181	3	.	.999	3	.939
DPP12	.379	3	.	.765	3	.032
DPP13	.311	3	.	.897	3	.377
CF11	.338	3	.	.852	3	.247
CF12	.200	3	.	.995	3	.863
CF13	.370	3	.	.786	3	.082
AF M	.232	3	.	.980	3	.726

a. Lilliefors Significance Correction

Uji Homogenitas

Test of Homogeneity of Variances

DE60

Levene Statistic	df1	df2	Sig.
2.447	6	14	.079

Uji Kruskal-Wallis

Ranks				Test Statistics ^{a,b}	
Perbandingan		N	Mean Rank		DE60
DE60	DPP11	3	10.83	Chi-Square	13.762
	DPP12	3	14.67	df	6
	DPP13	3	3.17	Asymp. Sig.	.032
	CF11	3	19.00	a. Kruskal Wallis Test b. Grouping Variable: Perbandingan	
	CF12	3	10.67		
	CF13	3	13.33		
	AF M	3	5.33		
	Total	21			

Uji Maan-Whitney

Ranks					Test Statistics ^b	
Perbandingan		N	Mean Rank	Sum of Ranks		DE60
DE60	DPP11	3	3.33	10.00	Mann-Whitney U	4.000
	DPP12	3	3.67	11.00	Wilcoxon W	10.000
	Total	6			Z	-.218
					Asymp. Sig. (2-tailed)	.827
					Exact Sig. [2*(1-tailed Sig.)]	1.000 ^a

Tidak terdapat perbedaan bermakna antara DPP11 dengan DPP12

Ranks					Test Statistics ^b	
Perbandingan		N	Mean Rank	Sum of Ranks		DE60
DE60	DPP11	3	5.00	15.00	Mann-Whitney U	.000
	DPP13	3	2.00	6.00	Wilcoxon W	6.000
	Total	6			Z	-1.964
					Asymp. Sig. (2-tailed)	.050
					Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

Terdapat perbedaan bermakna antara DPP11 dengan DPP13

Ranks

Perbandin gan	N	Mean Rank	Sum of Ranks
DE60 DPP11	3	3.00	9.00
CF 11	3	4.00	12.00
Total	6		

Test Statistics^b

	DE60
Mann-Whitney U	3.000
Wilcoxon W	9.000
Z	-.655
Asymp. Sig. (2-tailed)	.513
Exact Sig. [2*(1-tailed Sig.)]	.700 ^a

Tidak terdapat perbedaan bermakna antara DPP11 dengan CF11

Ranks

Perbandin gan	N	Mean Rank	Sum of Ranks
DE60 DPP11	3	3.67	11.00
CF 12	3	3.33	10.00
Total	6		

Test Statistics^b

	DE60
Mann-Whitney U	4.000
Wilcoxon W	10.000
Z	-.218
Asymp. Sig. (2-tailed)	.827
Exact Sig. [2*(1-tailed Sig.)]	1.000 ^a

Tidak terdapat perbedaan bermakna antara DPP11 dengan CF12

Ranks

Perbandin gan	N	Mean Rank	Sum of Ranks
DE60 DPP11	3	2.67	8.00
CF 13	3	4.33	13.00
Total	6		

Test Statistics^b

	DE60
Mann-Whitney U	2.000
Wilcoxon W	8.000
Z	-1.091
Asymp. Sig. (2-tailed)	.275
Exact Sig. [2*(1-tailed Sig.)]	.400 ^a

Tidak terdapat perbedaan bermakna antara DPP11 dengan CF13

Ranks

Perbandin gan	N	Mean Rank	Sum of Ranks
DE60 DPP11	3	4.33	13.00
AF M	3	2.67	8.00
Total	6		

Test Statistics^b

	DE60
Mann-Whitney U	2.000
Wilcoxon W	8.000
Z	-1.091
Asymp. Sig. (2-tailed)	.275
Exact Sig. [2*(1-tailed Sig.)]	.400 ^a

Tidak terdapat perbedaan bermakna antara DPP11 dengan AF murni

Ranks				Test Statistics ^b	
Perbandin gan		N	Mean Rank	Sum of Ranks	DE60
DE60	DPP12	3	5.00	15.00	Mann-Whitney U .000
	DPP 13	3	2.00	6.00	Wilcoxon W 6.000
					Z -1.964
					Asymp. Sig. (2-tailed) .827
	Total	6			Exact Sig. [2*(1-tailed Sig.)] .100 ^a

Tidak terdapat perbedaan bermakna antara DPP12 dengan DPP13

Ranks				Test Statistics ^b	
Perbandin gan		N	Mean Rank	Sum of Ranks	DE60
DE60	DPP12	3	3.67	11.00	Mann-Whitney U 4.000
	CF 11	3	3.33	10.00	Wilcoxon W 10.000
					Z -.218
					Asymp. Sig. (2-tailed) .827
	Total	6			Exact Sig. [2*(1-tailed Sig.)] 1.000 ^a

Tidak terdapat perbedaan bermakna antara DPP12 dengan CF11

Ranks				Test Statistics ^b	
Perbandin gan		N	Mean Rank	Sum of Ranks	DE60
DE60	DPP12	3	4.33	10.00	Mann-Whitney U 2.000
	CF 12	3	2.67	11.00	Wilcoxon W 8.000
					Z -1.091
					Asymp. Sig. (2-tailed) .275
	Total	6			Exact Sig. [2*(1-tailed Sig.)] .400 ^a

Tidak terdapat perbedaan bermakna antara DPP12 dengan CF12

Ranks				Test Statistics ^b	
Perbandin gan		N	Mean Rank	Sum of Ranks	DE60
DE60	DPP12	3	3.67	11.00	Mann-Whitney U 4.000
	CF 13	3	3.33	10.00	Wilcoxon W 10.000
					Z -.218
					Asymp. Sig. (2-tailed) .827
	Total	6			Exact Sig. [2*(1-tailed Sig.)] 1.000 ^a

Tidak terdapat perbedaan bermakna antara DPP12 dengan CF13

Ranks				Test Statistics ^b	
Perbandingan	N	Mean Rank	Sum of Ranks		DE60
DE60 DPP12	3	5.00	15.00	Mann-Whitney U	.000
AF M	3	2.00	6.00	Wilcoxon W	6.000
Total	6			Z	-1.964
				Asymp. Sig. (2-tailed)	.050
				Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

Terdapat perbedaan bermakna antara DPP12 dengan AF murni

Ranks				Test Statistics ^b	
Perbandingan	N	Mean Rank	Sum of Ranks		DE60
DE60 DPP13	3	2.00	6.00	Mann-Whitney U	.000
CF 11	3	5.00	15.00	Wilcoxon W	6.000
Total	6			Z	-1.964
				Asymp. Sig. (2-tailed)	.050
				Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

Terdapat perbedaan bermakna antara DPP13 dengan CF11

Ranks				Test Statistics ^b	
Perbandingan	N	Mean Rank	Sum of Ranks		DE60
DE60 DPP13	3	2.00	6.00	Mann-Whitney U	.000
CF 12	3	5.00	15.00	Wilcoxon W	6.000
Total	6			Z	-1.964
				Asymp. Sig. (2-tailed)	.050
				Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

Terdapat perbedaan bermakna antara DPP13 dengan CF12

Ranks				Test Statistics ^b	
Perbandingan	N	Mean Rank	Sum of Ranks		DE60
DE60 DPP13	3	2.00	6.00	Mann-Whitney U	.000
CF 13	3	5.00	15.00	Wilcoxon W	6.000
Total	6			Z	-1.964
				Asymp. Sig. (2-tailed)	.050
				Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

Terdapat perbedaan bermakna antara DPP13 dengan CF13

Ranks					Test Statistics ^b	
Perbandin gan		N	Mean Rank	Sum of Ranks		DE60
DE60	DPP13	3	3.00	9.00	Mann-Whitney U	3.000
	AF M	3	4.00	12.00	Wilcoxon W	9.000
					Z	-.655
					Asymp. Sig. (2-tailed)	.513
	Total	6			Exact Sig. [2*(1-tailed Sig.)]	.700 ^a

Tidak terdapat perbedaan bermakna antara DPP13 dengan AF murni

Ranks					Test Statistics ^b	
Perbandin gan		N	Mean Rank	Sum of Ranks		DE60
DE60	CF 11	3	4.00	12.00	Mann-Whitney U	3.000
	CF 12	3	3.00	9.00	Wilcoxon W	9.000
	Total	6			Z	-.655
					Asymp. Sig. (2-tailed)	.513
					Exact Sig. [2*(1-tailed Sig.)]	.700 ^a

Tidak terdapat perbedaan bermakna antara CF11 dengan CF12

Ranks					Test Statistics ^b	
Perbandin gan		N	Mean Rank	Sum of Ranks		DE60
DE60	CF 11	3	4.00	12.00	Mann-Whitney U	3.000
	CF 13	3	3.00	9.00	Wilcoxon W	9.000
					Z	-.655
	Total	6			Asymp. Sig. (2-tailed)	.513
					Exact Sig. [2*(1-tailed Sig.)]	.700 ^a

Tidak terdapat perbedaan bermakna antara CF11 dengan CF13

Ranks					Test Statistics ^b	
Perbandin gan		N	Mean Rank	Sum of Ranks		DE60
DE60	CF 11	3	4.33	13.00	Mann-Whitney U	2.000
	AF M	3	2.67	8.00	Wilcoxon W	8.000
	Total	6			Z	-1.091
					Asymp. Sig. (2-tailed)	.275
					Exact Sig. [2*(1-tailed Sig.)]	.400 ^a

Tidak terdapat perbedaan bermakna antara CF11 dengan AF murni

Ranks					Test Statistics ^b	
Perbandingan		N	Mean Rank	Sum of Ranks		DE60
DE60	CF 12	3	3.00	9.00	Mann-Whitney U	3.000
	CF 13	3	4.00	12.00	Wilcoxon W	9.000
	Total	6			Z	-.655
					Asymp. Sig. (2-tailed)	.513
					Exact Sig. [2*(1-tailed Sig.)]	.700 ^a

Tidak terdapat perbedaan bermakna antara CF12 dengan CF13

Ranks					Test Statistics ^b	
Perbandingan		N	Mean Rank	Sum of Ranks		DE60
DE60	CF 12	3	4.67	12.00	Mann-Whitney U	1.000
	AF M	3	2.33	9.00	Wilcoxon W	7.000
					Z	-1.528
	Total	6			Asymp. Sig. (2-tailed)	.127
					Exact Sig. [2*(1-tailed Sig.)]	.200 ^a

Tidak terdapat perbedaan bermakna antara CF12 dengan AF murni

Ranks					Test Statistics ^b	
Perbandingan		N	Mean Rank	Sum of Ranks		DE60
DE60	CF 13	3	4.67	14.00	Mann-Whitney U	1.000
	AF M	3	2.33	7.00	Wilcoxon W	7.000
	Total	6			Z	-1.528
					Asymp. Sig. (2-tailed)	.127
					Exact Sig. [2*(1-tailed Sig.)]	.200 ^a

Tidak terdapat perbedaan bermakna antara CF13 dengan AF murni